

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **05251236 A**

(43) Date of publication of application: **28.09.93**

(51) Int. Cl

H01F 10/16
G11B 5/127
H01F 41/18

(21) Application number: **04082920**

(71) Applicant: **SONY CORP**

(22) Date of filing: **06.03.92**

(72) Inventor: **OMORI HIROYUKI**

(54) **SOFT MAGNETIC FILM**

(57) Abstract:

PURPOSE: To provide a soft magnetic film, which has a large saturation magnetic flux density, has a superior soft magnetism and a heat resistance and can improve productivity.

CONSTITUTION: The composition in a soft magnetic film is expressed by a general formula which is a formula $\text{Co}_x\text{M}_y\text{L}_z\text{N}_v\text{O}_w$ (in the formula Co represents cobalt, M

stands for the element of at least one kind of Fe and Ni, L stands for the element of at least one kind of Nb, Zr, Ta, Hf, Y, No, W, Cr, Ti, Si, Al, Sn, Ga and Ge, N and O respectively for nitrogen and oxygen and x, y, z, v, and w), respectively for the ratios of each element in atomic % and the composition range is set on the conditions of 602x294, 02y210, 32z220, 32v220 and 0.12w21.

COPYRIGHT: (C)1993,JPO&Japio